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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,980	10/31/2003	Chang-Bok Lee	45750	8964
7590	05/03/2005		EXAMINER	
Mark W. Hrozencik Roylance, Abrams, Berdo & Goodman, L.L.P. Suite 600 1300 19th Street, N.W. Washington, DC 20036				CHEN, SOPHIA S
				ART UNIT 2852
				PAPER NUMBER
DATE MAILED: 05/03/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.	10/697,980	Applicant(s)	LEE, CHANG-BOK
Examiner	Sophia S. Chen	Art Unit	2852

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

1) Responsive to communication(s) filed on \_\_\_\_\_.  
2a) This action is FINAL. 2b) This action is non-final.  
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

4) Claim(s) 1-6 is/are pending in the application.  
4a) Of the above claim(s)        is/are withdrawn from consideration.  
5) Claim(s) 1-6 is/are allowed.  
6) Claim(s)        is/are rejected.  
7) Claim(s)        is/are objected to.  
8) Claim(s)        are subject to restriction and/or election requirement.

### Application Papers

9) The specification is objected to by the Examiner.  
10) The drawing(s) filed on 31 October 2003 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All b) Some \* c) None of:  
1. Certified copies of the priority documents have been received.  
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

1) Notice of References Cited (PTO-892)  
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) Notice of Informal Patent Application (PTO-152)  
6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Quayle Action***

1. This application is in condition for allowance except for the following formal matters:

### ***Drawings***

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "key input unit" (claim 3) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Specification***

3. The abstract of the disclosure is objected to because of the inclusion of legal phraseology, such as "comprises" (page 15, line 3). Correction is required. See MPEP § 608.01(b).
4. The disclosure is objected to because of the following informalities:
  - a. Page 5, line 24, "I<sup>2</sup>C, bus" should be "I<sup>2</sup>C bus,".
  - b. Page 7, line 18, "I2C" should be "I<sup>2</sup>C".
  - c. Page 10, line 11, "A, description" should be "A description".

Appropriate correction is required.

***Claims***

5. Claims 1 and 5 contain the following informalities:
  - a. Claim 1, line 9, "A/D conversion units (emphasis added)" should be "A/D conversion unit" (see claim 1, line 6).
  - b. Claim 1, line 11, "the slave devices (emphasis added)" should be "the slave device" (see claim 1, line 8).
  - c. Claim 1, line 13, "the slave devices (emphasis added)" should be "the slave device" (see claim 1, line 8).
  - d. Claim 5, line 10, "the slave devices (emphasis added)" should be "the slave device" (see claim 5, line 3).

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

***Allowable Subject Matter***

6. Claims 1 through 6 are allowable over the prior art.
7. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record (especially, US Pat. No. 5,920,407) does not teach or suggest an image forming device/method comprising a plurality of detection sensors for detection operation states of the peripheral devices (emphasis added), and a master device for requesting to the slave device the detection result signal (after converted into the digital signals by the A/D conversion unit) of the at least one of the detection sensors in order to verify the operation states of the peripheral states.

***Citation of Pertinent Prior Art***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Erickson et al. (US Pat. No. 5,920,407) discloses an image forming device comprising a photosensitive detector array; an A/D conversion unit; a slave device; and a master device.

Selz et al. (US Pat. Pub. No. US 2004/0124871 A1) discloses apparatuses having an I2C bus.

Buckland et al. (US Pat. Pub. No. US 2004/0177195 A1) discloses an I2C bus being used for communication.

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sophia S. Chen whose telephone number is (571) 272-2133. The examiner can normally be reached on M-F (7:00-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Sophia S. Chen  
Primary Examiner  
Art Unit 2852

Ssc  
April 29, 2005